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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/707,273	12/02/2003	Anders Larsson	07589.0081.NPUS01	1272
28694	7590 03/31/2005		EXAMINER	
NOVAK DRUCE DELUCA & QUIGG, LLP			EDGAR, RICHARD A	
1300 EYE ST SUITE 400 E			ART UNIT	PAPER NUMBER
WASHINGT	WASHINGTON, DC 20005 3745			

DATE MAILED: 03/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		_					
	Application No.	Applicant(s)					
055 4-4 0	10/707,273	LARSSON, ANDER	S				
Office Action Summary	Examiner	Art Unit					
	Richard Edgar	3745					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.				
Status							
1) Responsive to communication(s) filed on 02 L	December 2003 under 37 C.F.R.&	1.53(b).					
	<u> </u>						
3) Since this application is in condition for allows	ance except for formal matters, pro	secution as to the r	nerits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims	h						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5,10 and 11</u> is/are rejected.	<u> </u>						
	7)⊠ Claim(s) <u>6-9</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
<u> </u>							
Application Papers		•					
· _	or.						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 02 December 2003 is/are; a) Seconted or b) objected to by the Examiner.							
10) The drawing(s) filed on <u>02 December 2003</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152							
	.xammer. Note the attached Office	Action of form FTC	-132				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).					
2. Certified copies of the priority documen	ts have been received in Applicati	on No					
3. Copies of the certified copies of the price	ority documents have been receive	ed in this National S	tage				
application from the International Burea	au (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	——————————————————————————————————————		52)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 3,964,840 (Kamelmacher hereinafter).

Kamelmacher discloses an open-type centrifugal impeller for a pump comprising a disc carrier 2 with blades 1 extending therefrom on one axial side thereof, said blades arranged in the radial direction wherein part of the radial length of the blade is convex 9 and part of the blade is concave 7.

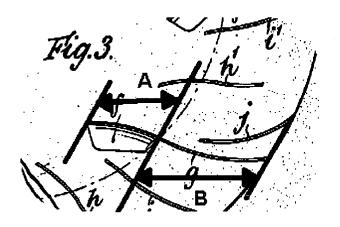
Claims 1-5 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 867,874 (Capell hereinafter).

Capell shows a closed-type centrifugal impeller having in Fig. 3 (right-side embodiment) blades g extending in the radial direction wherein the radially inner portion of the blade is concave in the direction of rotation and the radially outer portion of the blade is convex in the direction of rotation. As seen in Fig. 3 (right-side) the blade g extends to the periphery of the impeller. As can be seen from the annotated Fig. 3 of Capell below, the Fig. teaches the radially inner curved portion (A) being shorter than

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the radially outer curved portion (B). The length of A is between 10-40% the length of A+B.



Allowable Subject Matter

Claims 6-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: None of the references on record teach, disclose or fairly suggest forwardly leaned blades in combination with the "s"-shaped radial profile of the centrifugal impeller blades. Nor do any of the references teach, disclose or fairly suggest the "s"-shaped blades having a beveled edge adjacent the inlet of the impeller. In the examiner's opinion, it would not have been obvious at the time the invention was made to a person having ordinary skill in the art to modify any of the references so that either the blades are leaned forward or have a beveled surface adjacent the inlet since such modifications complicate the manufacturing process without adding any obvious advantages.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Edgar whose telephone number is (571) 272-4816. The examiner can normally be reached on Mon.-Thur, and alternate Fri., 7 am- 5

pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Richard Edgar

Examiner

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RE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700

3/27/05